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LIFE AND WORK OF C. F. MARBUT

By Soil Science Society of America

Review by M. R. Isaacson, Chief, Soil Conservation Surveys Division
Soil Conservation Service, Albuquerque, New Mexico

Curtis Fletcher Marbut was a man of the soil. He was born and brought up in the rural atmosphere of Missouri. He loved the land of his birth and felt very much at home in the Ozark hills whose attractions never grew tame to him. His interest in the knowledge of soils, however, were world wide and at the time of his death in Harbin Manchuria at the age of 72 years, he was enroute to China to act as advisor to the Chinese Geological Survey in organizing a soil survey. LIFE AND WORK OF C. F. MARBUT is a memorial to Dr. Marbut who served as Chief of the Soil Surveys in the Department of Agriculture from 1913 to 1935.

The book contains an excellent biography of Dr. Marbut and a number of brief testimonial sketches by outstanding soil scientists of the world. The major part of the volume, however, is devoted to original papers by Dr. Marbut dealing with various phases of soil science but centering primarily around soil morphology and soil classification.

The story of Dr. Marbut's life should be an inspiration to every worker in the field of agricultural science, and the student of soils will find the history of the development of Dr. Marbut's scheme of soil classification interesting and informative.

OTHER SOILS PUBLICATIONS OF INTEREST

BIBLIOGRAPHY OF AGRICULTURE. U.S.D.A. Library, Washington, D. C.

Contains books, periodical literature, and pamphlets by the USDA, State Agricultural Experiment Stations, and State Agricultural Extension Agencies. Author and subject indexes. Available for circulation. Monthly.

FACTORS OF SOIL FORMATION, A system of quantitative pedology. Hans Jenny.
McGraw-Hill Co. 1941.

INTRODUCCION AL ESTUDIO DE LOS SUELOS. Alfonso Gonzalez Gallardo. Banco Nacional de Credito Agricola, S. A. Mexico, D. F. 1941.

Su formacion, caracteristicas y clasificacion, con algunas anotaciones de agrologia aplicada y un primer intento para agrupar los suelos de Mexico entre los grandes grupos del mundo.

THE NATURE AND PROPERTIES OF SOILS, A college text of edaphology. T. Lyttleton Lyon and Harry O. Buckman. The Macmillan Co. 1937.

SOIL MECHANICS, its principles and structural applications. Dimitri P. Krynine. McGraw-Hill Co. 1941.

SOIL SCIENCE. Monthly periodical. Available for circulation.

SOIL SCIENCE SOCIETY OF AMERICA, PROCEEDINGS. Annual volumes. Soil Science Society of America. Morgantown, West Virginia.

THE SOILS THAT SUPPORT US, An introduction to the study of soils and their use by men. Charles E. Kellogg. Macmillan Co.

CONSERVATION

THE ECONOMICS OF SOIL CONSERVATION. Arthur C. Bunce. Iowa State College Press. 1942.

The book may be divided into three parts. The first section develops the theoretical tools used throughout the study. The second section deals with the factors affecting the use of the land by the individual, and the third section takes up various aspects of soil conservation as it is related to society, and the war, and suggests in some detail the kind of governmental action that is needed if increased production for war needs is not to result in greatly increased erosion.

LIFE AND ENVIRONMENT. The interrelations of living things. Paul B. Sears. Columbia University, New York. 1939.

A volume of interest to the layman and student of agriculture. It presents in broad relations a survey of man and his society. Plants, animals (including man), soil, air, rain, heat, cold, fire, wind, are compounded into a comprehensive and ever changing world-picture.

OUR NATURAL RESOURCES AND THEIR CONSERVATION. A. E. Farking and J. R. Whitaker. John Wiley & Sons. New York. 1939.

A popular presentation and complete coverage on the subject of conservation of natural resources. It is an interesting study and excellent background material for all agricultural workers.

CROPS

Experiments in the production of carrot seed. New Mex. Agr. Exp. B-308. 1943.

High-grade alfalfa hay, methods of producing, baling, and loading for market. USDA FB-1539. June, 1943.

How to fertilize corn effectively in Indiana. Indiana Agr. Exp. B-482. 1943.

Irrigated crop rotations. Montana Agr. Exp. Sta. B-414. May, 1943.

DAIRYING

An economic analysis of the milking enterprise on farms in the Ogden area, Utah, 1937-39. Utah Agr. Exp. Sta. B-309. 1943.

HOARD'S DAIRYMAN. Semi-monthly periodical. Available for circulation.

List of sires proved in dairy herd improvement associations, 1943. USDA, MP-522. May, 1943.

ECONOMICS

REVOLUTION IN LAND. Charles Abrams. Harper & Brothers. N.Y. 1939.

Mr. Abrams presents a challenging analysis of the changing place of land in the American economy. It is his philosophy that land nationalization is necessary if a greater group of our population are to be saved from misery. If effective aid is to be given the farmer, it must come from a government that does not think in terms of farm credit and farm mortgages, but in terms of the whole land set-up. He suggests that a central land commission be set up to harmonize land activities and to study each phase of the land problem as a part of an integrated whole.

THE AGRICULTURAL INDUSTRIES. D. W. Mellett and B. F. Martin. McGraw-Hill.

The term, agricultural industries, is used in the text to include the functions of purchasing and processing agricultural raw materials and marketing the manufactured products. Farm production and credit programs are also discussed. It is useful reference material on the technical phases of the marketing and processing of seven major groups of farm products.

FARMING

Dollars and sense in farming. Michigan Agr. Exp. Sta. B-324. May, 1943.

Effect of contour-cultivation and terraces on farm operating costs in the Southern Great Plains. USDA, SCS, and RLE. Amarillo, Texas. 1942.

A farm management study of farms with dairy enterprises in the Ogden Area, Utah, 1937-39. Utah Agr. Exp. Sta. B-308. June, 1943.

The future erosion control program on dry-land wheat farms of the Northern Utah Soil Conservation District. Joint recommendations of Utah Agr. College and SCS. March, 1943.

The influence of tradition on agriculture in New Mexico. Sanford A. Mosk. From: Jnl. of Economic History. December, 1942.

Investments by farmers - wise and otherwise. Michigan Agr. Exp. Sta. B-322.

FEEDS AND FEEDING

Cattle feeding as a method of marketing alfalfa on irrigated farms. New Mexico Agr. Exp. Sta. Bulletin 307. June, 1943.

How to feed proteins in wartime. Okla. Agr. Exp. Sta. C-113. July, 1943.

FOOD AND NUTRITION

- Home and factory manufacture of cottage cheese. Mich. Agr. Exp. Sta. B-185.
- Home and farm preparation of pickles. Calif. Agr. Ext. Service C-37 (recipes)
- Pickles in wartime meals. Montana Agr. Exp. Sta. C-175. Aug. 1943. (recipes)
- Planning meals for industrial workers. (includes USDA basic 7 food groups)
USDA, Food Distribution Administration. 1943.
- Producing food and feed enough for all the people. Speech of Hon. Clyde M. Reed of Kansas, in the U. S. Senate. July 8, 1943.
- Providing leadership in nutrition education through refresher courses.
Federal Security Agency. Washington. 1943.
- Selecting cream to make butter that will meet Government mold standards.
Montana Agr. Exp. Sta. B-415. June, 1943.
- Some methods of fruit preservation in wartime. Montana Agr. Exp. Sta. C-173.
- Vegetable preservation handbook for wartime use.

FORESTRY

- Skidding teamster's handbook: Efficiency in skidding of wood and handling of horses. Canadian Pulp and Paper Assoc. Montreal, Canada. 1942

TREE CROPS, a permanent agriculture. J. Russell Smith. Harcourt, Brace. 1929.

In Part I of this interesting book the author paints a vivid picture of the evils of soil erosion brought about by cultivating crops on sloping sites. The cause of this destruction is that "man has carried to the hills the agriculture of the plain". In Part II, he turns to tree crops and production of some of our carbohydrates for both man and animals in the form of acorns, nuts, and other fruits. Part III develops the idea of a "two-storied agriculture". Trees bearing edible fruits or nuts are to form the the upper story while cover crops form the ground story.

HYDROLOGY

- First stage water plan, Upper Rio Grande Basin - Colorado, New Mexico, Texas. Basin No. 101. National Resources Planning Board. Denver, Colo .
- HYDROLOGY: the fundamental basis of hydraulic engineering. Daniel W. Mead. McGraw-Hill, N. Y. 1919.
- Special report on water utilization in Chaves and Eddy Counties, New Mexico. USDA, BAE. Washington, D. C. June, 1942.

LAND USE

Administration and use of public lands. Hearings before a subcommittee of the committee on public lands and surveys. U. S. Senate, 77th Cong. 1st sess. 1941. Pt. 1, Ely and Elko, Nevada. Pt. 2, Casper and Lander, Wyoming. Pt. 3, Salt Lake City, Utah and Reno, Nevada. Pt. 4, Las Vegas, Nevada and Kingman and Phoenix, Arizona. Pt. 5, Tonopah, Nevada and Glenwood Springs, Colorado. Pt. 6, Vernal, Utah. Pt. 7, Washington, D. C. (summary)

Contour furrows on buffalo and blue grama range. Wayne H. Milos and H. W. Bradford. From: THE CATTLEMAN. August, 1943.

Grazing capacity as determined by range survey. C. B. Howe. USDA, BAE. 1942.

Preliminary report on pasutre investigations technique. Joint Committee of American Society of Agronomy, American Dairy Science Assoc. and American Soc. of Animal Production. From Jnl. OF DAIRY SCIENCE. V. 26, April, 1943.

Range land conservation and development in the post-war period. USDA. Inter-bureau coordinating committee on post-war planning. Washington, 1942.

PERSONNEL

EXECUTIVE ABILITY, its discovery and development. G. U. Cleeton and C. W. Mason. The Antioch Press. Ohio. 1934.

Practical procedures for use in the selection of men for executive positions, training methods to be used in grooming men for executive functions, and plans for self-development.

THE OFFICE SUPERVISOR. His relations to persons and to work. Henry E. Niles and M. C. H. Niles. John Wiley & Sons. New York. 1942.

Now that there is a shortage of trained leadership due to the war, the training of supervisors has become almost as important in white-collar occupations as in factories. This book is designed to give the present or prospective supervisor a general and comprehensive view of what is required of him.

Telephone manners. USDA. Office of Personnel. Washington. 1941.

TRAINING PROCEDURE. Frank Cushman. John Wiley & Sons, New York. 1940.

A discussion of the problems encountered in planning, organizing, and maintaining efficient training programs in industrial, business, and public service organizations.

Writing effective USDA Reports. USDA. Office of Personnel. Washington, 1941.

Writing effective USDA letters. USDA. Office of Personnel. Washington, D. C.

PLANT DISEASES AND INSECTS

Chemical seed treatments for the control of certain diseases of sorghum. USDA Technical Bulletin 849. 1943.

PLANT DISEASES AND INSECTS (con't)

Diseases of Dent corn in the United States. USDA Circular 674. 1943.

Dutch Elm disease and its control. USDA Circular 677. 1943.

Fungi reported on species of medicago, melilotus, and trifolium. USDA. MP 499. 1943.

INSECTS OF WESTERN NORTH AMERICA. E. O. Essig. Macmillan, New York, 1936.

A manual and textbook for students in colleges and universities and a handbook for county, state, and federal entomologists and agriculturists as well as for foresters, farmers, gardeners, travelers, and lovers of nature.

MANUAL OF PLANT DISEASES. F. D. Heald. McGraw-Hill. New York. 1933.

Market diseases of fruits and vegetables. Citrus and other subtropical fruits. USDA MP-498. June, 1943.

Studies on host plants of the leafhoppers of the genus Empoasca. USDA Technical Bulletin 850. May, 1943.

PLANTS

Condiment plants, analysis and summary of information on the crop possibilities of condiment plants that may be grown in the United States. USDA. Bureau of Plant Industry, May, 1942.

Fiber production in the western hemisphere. USDA. MF-518. 1943.

Medicinal plants, analysis and summary of information on the crop possibilities of medicinal plants of essential significance. USDA Bureau of Plant Industry. June, 1941.

Perennial weed control. New Mexico Agr. Ext. Service, C-185. June, 1943.

Wild foods. Cornell Rural School Leaflet. Vol. 36, No. 4. March, 1943.

POST-WAR PLANNING

Experimental rural health program. USDA. Interbureau coordinating committee on Post-war Programs. Washington, D. C. 1942.

Demobilization and readjustment. Report of the conference on postwar readjustment of civilian and military personnel. National Resources Planning Board. Washington, D. C. June, 1943.

TRANSPORTATION

How to organize farmers' transportation and assembling associations. USDA Farm Credit Administration. June, 1942.

Transportation and National Policy. National Resources Planning Board. 1943.

WAR BACKGROUND STUDIES

War Background Studies. Smithsonian Institution. Washington, 1943.

No. 12. Are wars inevitable?

No. 13. Alaska: America's continental frontier outpost.

No. 14. Islands and peoples of the Indies,

No. 15. Iceland and Greenland.

WILDLIFE

AMERICAN MAMMALS, their lives, habits, and economic relations. W. J. Hamilton. McGraw-Hill Book Co. 1939.

This volume includes all the mammal families of North America, from Panama to the Arctic Barrens; their characteristics and habits.

Federal aid in wildlife restoration program. Compiled by the Sportsmen's Service Bureau of the Sporting Arms and Ammunition Mfg's Institute in Cooperation with the Fish and Wildlife Service of the USDA. New York. 1943 . Complete to June 30, 1942. Supplement - July-Sept. 1942.

Wild ducks. American Wildlife Institute. Washington, D. C. 1941.

BIBLIOGRAPHY OF AGRICULTURE. USDA Library, Washington, D.C.

Prompt and complete coverage of the literature of agriculture is being given in the "Bibliography of Agriculture" which started in July and is to be issued each month. All material received in the Department of Agriculture Library, which is the world's greatest repository of information about agriculture, food, and related subjects is being listed. The July issue contained over 4,000 books and articles and the total number of articles listed each year will probably exceed 50,000.

The new Bibliography replaces the old lists which covered agricultural economics and rural sociology, agricultural engineering, entomology, plant science, forestry, and food processing and distribution. Its scope has also been broadened to include human nutrition, the animal industry and other agricultural subjects.

A detailed table of contents and a full author and subject index makes this a valuable and easily used tool.

Not only is the "Bibliography of Agriculture" available for circulation from the Albuquerque Branch but any publication listed in it may be borrowed. Material on file in Albuquerque will be sent from here and other publications will be obtained for you from the Department Library in Washington.

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